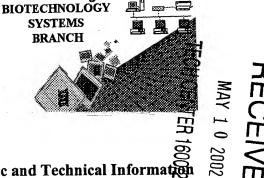
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RAW SEQUENCE LISTING ERROR REPORT





The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/425,804B
Source:	1600
Date Processed by STIC:	5/1/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

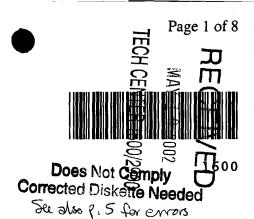
TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



DATE: 05/01/2002 TIME: 12:34:25

PATENT APPLICATION: US/09/425,804B

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

- 4 <110> APPLICANT: Gorenstein, David G.
- Luxon, Bruce A.
- Herzog, Norbert 6
- Aronson, Judy
- 9 <120> TITLE OF INVENTION: Thio-Modified Aptamer Synthetic Methods and
- Compositions 10
- 12 <130> FILE REFERENCE: 122144-001001
- 14 <140> CURRENT APPLICATION NUMBER: 09/425,804B
- 15 <141> CURRENT FILING DATE: 1999-10-25
- 17 <150> PRIOR APPLICATION NUMBER: 60/105,600
- 18 <151> PRIOR FILING DATE: 1998-10-26
- 20 <160> NUMBER OF SEQ ID NOS: 50
- 22 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

- 24 <210> SEQ ID NO: 1
- 25 <211> LENGTH: (66)
- 26 <212> TYPE: DNA
- 27 <213> ORGANISM: Artificial Sequence
- 29 <220> FEATURE:
- 30 <221> NAME/KEY: misc_feature
- 31 <222> LOCATION: (24)..(44)
- 32 <223> OTHER INFORMATION: n is A, T, G or C
- 34 <220> FEATURE:
- 35 <223> OTHER INFORMATION: Description of Artificial Sequence; aptamer
- 37 <400> SEQUENCE: 1
- E--> 38 cagtgctcta gaggatccgt gacnnnnn nnnnnnnnn nnnnncgaag cttatcgatc
- E--> 39 cgagcg
 - 399 <210> SEQ ID NO: 33
 - 400 <211> LENGTH: 14
 - 401 <212> TYPE: DNA
 - 402 <213> ORGANISM: Artificial Sequence
 - 404 <220> FEATURE:
 - 405 <221> NAME/KEY: modified_base
 - 406 <222> LOCATION: (2)
 - 407 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
 - 409 <220> FEATURE:
 - 410 <221> NAME/KEY: modified_base
 - 411 <222> LOCATION: (12)
 - 412 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
 - 414 <400> SEQUENCE: 33

- I've Count is

PATENT APPLICATION: US/09/425,804B

DATE: 05/01/2002 TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

```
(14) - line count is 15
E--> 415 gtgggaatctc ctgg
     435 <210> SEQ ID NO: 35
     436 <211> LENGTH: 14
     437 <212> TYPE: DNA
     438 <213> ORGANISM: Artificial Sequence
     440 <220> FEATURE:
     441 <221> NAME/KEY: modified_base
W--> 442 (212) TYPE: (2) change to 22227 - only needed once
E--> 442 (212) TYPE: (2) delete
W--> 443 <213> ORGANISM: thymidine 3'-O-phosphorothioate
     445 <220> FEATURE:
     446 <221> NAME/KEY: modified_base
     447 <222> LOCATION: (7)
     448 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
     450 <220> FEATURE:
     451 <221> NAME/KEY: modified_base
     452 <222> LOCATION: (9)
     453 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
     455 <220> FEATURE:
     456 <221> NAME/KEY: modified_base
     457 <222> LOCATION: (12)
     458 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
     460 <400> SEQUENCE: 35
     461 gtggaatctc ctgg
                                14
     463 <210> SEQ ID NO: 36
     464 <211> LENGTH: 14
     465 <212> TYPE: DNA
     466 <213> ORGANISM: Artificial Sequence
     468 <220> FEATURE:
     469 <221> NAME/KEY: modified_base
                                        - Some error as tobac
W--> 470 <212> TYPE: Compliment (2)
E--> 470 <212> TYPE: Compliment (2)
W--> 471 (213>)ORGANISM: phosphorothioate
                                                      473 <<del>22</del>0> FEATURE:
     474 <221> NAME/KEY: modified_base
W--> 475 (212) TYPE: Compliment (12)
E--> 475 (212) TYPE: Compliment (12)
W--> 476 (213) ORGANISM: phosphorothioate
     478 <220> FEATURE:
     479 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
     481 <400> SEQUENCE: 36
     482 ccaggagatt ccac
                                 14
     484 <210> SEQ ID NO: 37
     485 <211> LENGTH: 14
     486 <212> TYPE: DNA
     487 <213> ORGANISM: Artificial Sequence
     489 <220> FEATURE:
     490 <221> NAME/KEY: modified_base
W--> 491 \langle 212 \rangle TYPE: Compliment (5)
               42227
```

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

TIME: 12:34:25

Output Set: N:\CRF3\05012002\I425804B.raw

```
E--> 491 (212) TYPE: Compliment (5) delete
W--> 492 (213) ORGANISM: phosphorothioate
                                               -3 22235
     494 <220> FEATURE:
495 <221> NAME/KEY: modified_base
W--> 496 (212) TYPE: Compliment (7)
E--> 496 (212) TYPE: Compliment (7) delet
W--> 497 (213) ORGANISM: phosphorothicate > <223>
     499 <220> FEATURE:
     500 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
     502 <400> SEQUENCE: 37
     503 ccaggagatt ccac
                                 14
     562 <210> SEQ ID NO: 40
     563 <211> LENGTH: 14
     564 <212> TYPE: DNA
     565 <213> ORGANISM: Artificial Sequence
     567 <220> FEATURE:
     568 <221> NAME/KEY: modified_base
     569 <222> LOCATION: (9)..(10)
     570 <223> OTHER INFORMATION: phosphorothioate
     572 <220> FEATURE:
     573 <221> NAME/KEY: modified_base
     574 <222> LOCATION: Complement (5)
     575 <223> OTHER INFORMATION: phosphorothioate
     577 <220> FEATURE:
     578 <221> NAME/KEY: modified_base
     579 <222> LOCATION: Complement (7)
     580 <223> OTHER INFORMATION: phosphorothioate
     582 <220> FEATURE:
     583 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
E--> 585 <400> SEQUENCE: 38
                              Dupped sequence, see P.S
     586 ccaggagatt ccac
E--> 588 <210> SEQ ID NO: 40
     589 <211> LENGTH: 14
     590 <212> TYPE: DNA
     591 <213> ORGANISM: Artificial Sequence
     593 <220> FEATURE:
     594 <221> NAME/KEY: modified_base
     595 <222> LOCATION: (9)..(10)
     596 <223> OTHER INFORMATION: phosphorothioate
     598 <220> FEATURE:
     599 <221> NAME/KEY: modified_base
     600 <222> LOCATION: Complement (2)
     601 <223> OTHER INFORMATION: phosphorothioate
     603 <220> FEATURE:
     604 <221> NAME/KEY: modified_base
     605 <222> LOCATION: Complement (5)
     606 <223> OTHER INFORMATION: phosphorothioate
     608 <220> FEATURE:
```

609 <221> NAME/KEY: modified_base

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

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43

TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\1425804B.raw

610 <222> LOCATION: Complement (7) 611 <223> OTHER INFORMATION: phosphorothioate 613 <220> FEATURE: 614 <221> NAME/KEY: modified_base 615 <222> LOCATION: Complement (12) 616 <223> OTHER INFORMATION: phosphorothioate 618 <220> FEATURE: 619 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer E--> 621 <400> SEQUENCE: (41) - NO. differs from Seq. ID No. 622 ccaggagatt ccac E--> 624 <210> SEQ ID NO: (42 - Should be 41 622 ccaggagatt ccac 14 635 <210> SEQ ID NO: 43 636 <211> LENGTH: 43 637 <212> TYPE: DNA 638 <213> ORGANISM: Artificial Sequence 640 <220> FEATURE: 641 <221> NAME/KEY: modified_base W--> 642 (212) TYPE: (9) E--> 642 (212> TYPE: (9) delete W--> 643 (213) ORGANISM: phosphorodithioate > L2237 645 <220> FEATURE: 646 <221> NAME/KEY: modified_base W--> 647 (212) TYPE: (20) 72227 E--> 647 (212> TYPE: (20) delete W--> 648 (213) ORGANISM: phosphorodithioate 650 <220> FEATURE: うくひろう 651 <221> NAME/KEY: modified_base W--> 652 (212) TYPE: (9) -> KILLI E--> 652 <212> TYPE+ (9) W--> 653 (213) ORGANISM: phosphate ester

-->∠222>

655 <220> FEATURE:

E--> 657-(212> TYPE+ (20) del ell

w--> 660 ₹223> OTHER INFORMATION: 660 <400> SEQUENCE: 43

W--> 657 (212) TYPE: (20)

656 <221> NAME/KEY: modified_base

E--> 661 ccaggagatt ccacttttgt ggaatctcct gga

W--> 658 (213) ORGANISM: phosphate ester

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/425,804B

DATE: 05/01/2002 TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

Skipped Sequences(NEW RULES):

Sequence(s)_missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

Seq#:41

Use of <220> Feature(NEW RULES):

Sequence(s)_are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

Seq#:2,14,25,43

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/425,804B

DATE: 05/01/2002 TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

```
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:38 M:254 E: No. of Bases conflict, LENGTH:Input:60 Counted:59 SEQ:1
M:254 Repeated in SeqNo=1
L:39 M:252 E: No. of Seq. differs, <211> LENGTH:Input:66 Found:65 SEQ:1
L:46 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:48 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:159 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:298 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:298 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:415 M:254 E: No. of Bases conflict, LENGTH:Input:14 Counted:15 SEQ:33
L:415 M:252 E: No. of Seq. differs, <211> LENGTH:Input:14 Found:15 SEQ:33
L:442 M:280 W: Numeric Identifier already exists, Type not replaced.
L:442 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:443 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:470 M:280 W: Numeric Identifier already exists, Type not replaced.
L:470 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:471 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:475 M:280 W: Numeric Identifier already exists, Type not replaced.
L:475 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:476 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:491 M:280 W: Numeric Identifier already exists, Type not replaced.
L:491 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:492 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:496 M:280 W: Numeric Identifier already exists, Type not replaced.
L:496 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:497 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:585 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:38
L:588 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:40
L:621 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:41
L:624 M:214 E: (33) Seq.# missing, SEQ ID NO:41
L:642 M:280 W: Numeric Identifier already exists, Type not replaced.
L:642 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:643 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:647 M:280 W: Numeric Identifier already exists, Type not replaced.
L:647 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:648 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:652 M:280 W: Numeric Identifier already exists, Type not replaced.
L:652 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:653 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:657 M:280 W: Numeric Identifier already exists, Type not replaced.
L:657 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
```

L:658 M:280 W: Numeric Identifier already exists, Organism not replaced.

VERIFICATION SUMMARY

DATE: 05/01/2002

PATENT APPLICATION: US/09/425,804B

TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt

Output Set: N:\CRF3\05012002\I425804B.raw

 $L:660\ M:258\ W:$ Mandatory Feature missing, <223> OTHER INFORMATION:

L:661 M:254 E: No. of Bases conflict, LENGTH:Input:43 Counted:33 SEQ:43 L:661 M:252 E: No. of Seq. differs, <211> LENGTH:Input:43 Found:33 SEQ:43